

### **WHAT IS CLAIMED IS:**

1. A metal atomizing device comprising:

a casing with an inlet tube inserted in the casing and an outlet defined through the casing, the inlet tube and the outlet sharing a common axis, a first impact member located at an outlet of the inlet tube and being a polygonal member, a  
5 plurality of gas inlets connected to the casing so as to be adapted to provide noble gas into the casing.

2. The device as claimed in claim 1, wherein the outlet in the casing is a funnel-shaped outlet.

10 3. The device as claimed in claim 1, wherein an extension part is connected to the casing and the outlet is in communication between the casing and the extension part, a second impact member located in a chamber of the extension part and located on the common axis of the first impact member.

15 4. The device as claimed in claim 1, wherein a collection member is located at the outlet of the casing and a gap is defined between the casing and the collection member, a blowing device being located to blow air into the gap transverse to the common axis, a pipe communicating with the collection member and the inlet tube, a heater connected to the pipe.

20 5. The device as claimed in claim 4, wherein the collection member includes two sub-passages defined therethrough.